MATH 300 LEC 19 Mos the DAG. For the Setting Non Retain (242) and usually in Interiore (341) eg. in experience studies, the x's mure be reasonal before the response is reasonal. Let's look as some size case

Here X does not caux y and X is not correlated to by.
However, a spinious correlation may occur, A model g(x)
would perform worse than go since it is overton (CST, err).

Here, g(x) should do better than go depending on how strong the relaxable $X = K_{X,Z}(Z) + ignore$ is not how $Y = K_{Y,Z}(Z) + ignore$ is not how somy $Y = K_{Y,Z}(Z) + ignore$ is constant

(S)—(S)—(Y)

X both cruses y and X is corn. +2 y. g(x) should be better than go deputy on him strong the returned in Z= hz,(x)+ grammer and hom corefly it is captul when model yn X is consumed.

This she fall polone, no correlin for V X, Y --. the religiouship between The correlerum & causation, but somether the correite. How to prou causeou? That the big topic to de caploid. This carson - correlation. Correlism = Crissing Somewhere i.e. ohnough a commun affect (which is collect a Contember) or Turking montible 4 In (5), 2 is oh contamer of the redormship of x my. If I have more situe, the deform will be more exerct. When does the real picken look like not mattyle x's? Y= & (211.724) y= f(x, ,, xp) + f Each scenario A,B,C que represented and more a You don't now produce in A Heye Geless and will cause

Gren shir very meny pressure, who does to mean to as, legion regueron, poèsses jujuson, heinel, cox ph, en? lets be complet and build up an interpretary theready y = bo+b, x, + ... + bpxp 915/ $\phi^{-1}(\hat{e}) = b_0 + b_1 \times_1 + \cdots + b_p \times p$ e.g. $\phi^{-1}(\hat{e}) = k_1(\hat{e}_p)$ for logion link ý = е в в в м. ... е в ркр э во в в х, к. т в ркр perpoille reguest Parsynh pogusson y= [(+ 1/2 ma) e b e bix: ... e bρ κρ = ln(y) = ln ((+ 1/2)) + bo + bi + + + + + bρ κρ Way brown people he)= hote) = bo e box, ... e box = ln (hot)) + box b, x, x., + bp xp hebble Juperson COXPH Here's the carried in increased by one may de and all other mind / for b = 1.17

The blood sign is increased by one may de and all other mand / for b = 1.17

The present is increased by method will interest in the second of th regions persuas runnin constant block triglycetitle mill remainingly interest is to set decree "

and explaned 1:17±25 MMs/L response land liver response land liver in the corners of the report of the repor by 94 estimated 1:17±25 MMs/L valued by ±5, compt regime Focus is on the mongolour / insurerous of X;

Let's do this for legions regression when $x_j = blood sign (rig/dL)$ and y = 1 if person will get directes. and $b_j = 0.49$, $b_j = 0.12$ "If blood sugar is skewed by one my/dL and all other presymmes semin consint, the log solds if glasing disbettes will toulongly rureuse by an coonered 0.49 ± 0.12 assuming the log also of getong disbates is like in there of country. How show for hibell? $x_j = blood sign (ng/dL)$ and y = rot simul(y)and $b_j = -0.02$, $s_b = 0.007$ "If blood sign is increase by on my/dL and all other by an estable 0.02 \$0.007 = assuming the survey is helded download with log mean liter in these p covarines. Alsowardy, if he was to use sund i'm years, he can use the preparame) "If blood sugar is incume by one my/dL and All other persums comme constant, the survey will realings decent by an estmel 2.07. assumy 11
For cox PH, some covarines "If blood sign is increme by on mylet and all other rensumms remain comments the log horand rare of serviced will wondered decrease by on some 0.02 ± 0.007 assuming the second process has a hazard rose log than in the p consume.